



PATENT

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Date: 7/19/04
By: Richard A. Parkoff

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien W. Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974

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PH11207452.1

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CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation

(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

| Serial No. | Filing Date | Assignment Information |
|------------|-------------|---|
| 09/785,114 | 2/20/2001 | Assignment recorded in the Patent and Trademark Office at Reel 011598, Frame 0438 |
| 09/945,432 | 9/4/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012151, Frame 0558 |
| 09/993,067 | 11/14/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012327, Frame 0486 |
| 10/040,042 | 11/7/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012472, Frame 0229 |
| 10/042,573 | 1/9/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012486, Frame 0878 |
| 10/043,483 | 1/11/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012486, Frame 0805 |
| 10/086,258 | 3/4/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012682, Frame 0716 |
| 10/140,648 | 5/7/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012902, Frame 0476 |
| 10/163,709 | 6/6/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012987, Frame 0814 |
| 10/170,247 | 6/12/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013002, Frame 0822 |
| 10/176,855 | 6/21/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013034, Frame 0170 |
| 10/187,705 | 7/2/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013082, Frame 0883 |
| 10/197,048 | 7/17/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013129, Frame 0317 |
| 10/205,791 | 7/26/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013148, Frame 0401 |
| 10/213,586 | 8/7/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013179, Frame 0574 |
| 10/222,360 | 08/16/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013936, Frame 0305 |
| 10/236,535 | 9/6/2002 | Assignment recorded in the Patent and Trademark Office at Reel 009698, Frame 0404 |
| 10/238,708 | 9/10/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013296, Frame 0365 |
| 10/251,326 | 9/20/2002 | Copy of Assignment attached |
| 10/261,289 | 09/30/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013360, Frame 0977 |
| 10/268,587 | 10/10/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013384, Frame 0722 |
| 10/270,973 | 10/15/2002 | Copy of Assignment attached |
| 10/283,892 | 10/30/2002 | Assignment recorded in the Patent and Trademark Office at Reel 011429, Frame 0641 |

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|------------|------------|---|
| 10/292,773 | 11/12/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012593, Frame 0773 |
| 10/310,314 | 12/5/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013558, Frame 0278 |
| 10/323,098 | 12/18/2002 | Assignment recorded in the Patent and Trademark Office at Reel 011672, Frame 0361 |
| 10/353,111 | 1/28/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013715, Frame 0359 |
| 10/353,421 | 1/29/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013722, Frame 0384 |
| 10/371,842 | 2/20/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013805, Frame 0302 |
| 10/427,286 | 5/1/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014035, Frame 0966 |
| 10/437,373 | 5/13/2003 | Assignment recorded in the Patent and Trademark Office at Reel 011226, Frame 0344 |
| 10/462,287 | 6/16/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012154, Frame 0573 |
| 10/613,606 | 7/3/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012582, Frame 0014 |
| 10/623,912 | 7/21/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014318, Frame 0163 |
| 10/689,430 | 10/20/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014622, Frame 0430 |
| 10/700,779 | 11/04/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014670, Frame 0664 |

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: June 23, 2004 By: Chien-Wei Chou
 Name: Chien-Wei Chou
 Title: Director, Intellectual Property Division